

REMARKS

Claims 1-34 are pending in this application. By the Office Action, claims 5-34 are withdrawn from consideration; the disclosure is objected to; and claims 1-4 are rejected under 35 U.S.C. §103(a). By this Amendment, claim 1 is amended. Support for the amendments to claim 1 can be found, for example, in the specification and Figures as filed. No new matter is added. In view of the foregoing amendments and following remarks, reconsideration and allowance are respectfully requested.

I. Restriction Requirement

Claims 5-34 are withdrawn from consideration as subject to a combined Restriction and Election of Species Requirement. Applicants respectfully traverse the Requirements, for all of the reasons set forth in the previous response.

Applicants further understand, however, that rejoined of non-elected process claims will be required upon allowance of product claims where the process claim depends from or otherwise includes all the limitations of an allowed product claim. Applicants further understand that upon search, examination and allowance of the elected species, search and examination will continue as to the non-elected species within the scope of the generic claims.

II. Objection to Specification

The Office Action objects to the specification for use of the acronym "LSI" and requests clarification of the term. As is well known in the art, "LSI" refers to Large Scale Integrated circuits. Because this is a well known term of art, no amendment to the specification is believed necessary. Reconsideration and withdrawal of the objection are respectfully requested.

III. Rejections Under 35 U.S.C. §103

The Office Action rejects claims 1-4 under 35 U.S.C. §103(a) over Fee in view of Chun-Jen. Applicants respectfully traverse the rejection.

Claim 1, as amended, is directed to a plastic package comprising: a plurality of terminal members each having an outer terminal having an upper surface, a lower surface and an outer side surface, an inner terminal having a contact surface, and a connecting part connecting the outer and the inner terminal; a semiconductor device provided with terminal pads connected to the contact surfaces of the inner terminals with bond wires; and a resin molding sealing the terminal members, the semiconductor device and the bond wires therein. Claim 1 further specifies that the inner terminals of the terminal members are thinner than the outer terminals and have the contact surfaces, the contact surfaces of the inner terminals, the upper surfaces of the outer terminals, the lower surfaces of the outer terminals of the terminal members are included in planes, respectively, and the upper, the lower and the outer side surfaces of the outer terminals of the terminal members, and a surface of the semiconductor device opposite the surface provided with the terminal pads are exposed outside, and the inner terminals, the bond wires, the semiconductor device and the resin molding are included in the thickness of the outer terminals, and that the semiconductor device has a thickness thinner than that of the inner terminals, and each inner terminal is so constructed that the section of the inner terminal is tapered toward the inside. Such a plastic package semiconductor device is nowhere taught or suggested by the cited references.

The Office Action asserts that Fee discloses all of the limitations of independent claim 1, except that the inner terminals of the terminal members are thinner than the outer terminals and have the contact surfaces. However, the Office Action argues that Chun-Jen discloses terminal members as claimed, and that it would have been obvious to incorporate Chun-Jen's teachings into Fee in order to increase stability of the die and molding resin. Applicants disagree that the cited references would have rendered obvious the claimed invention.

According to claim 1, the claimed invention includes, *inter alia*, the following features:

- (1) the semiconductor device is provided with terminal pads connected to the contact surface of the inner terminals with bonding wires;
- (2) the semiconductor device has a thickness thinner than that of the inner terminals;
and
- (3) each inner terminal is so constructed that the section of the inner terminal is tapered toward the inside.

As a result of these features, the claimed invention provides significant advantages to the plastic package that are not taught or suggested by the cited references.

As a result of a combination of the above features (1)-(3), the plastic package can be formed more easily. In particular, because the semiconductor device has a thickness thinner than that of the inner terminals, when the bonding wires are connected to the terminal pads of the semiconductor device, a space above the semiconductor device for connecting the bonding wires to the terminal pads of the semiconductor device can be larger. As a result, the bonding wires can be more easily and smoothly connected.

Neither Fee nor Chun-Jen teaches or suggests these benefits, or the means to accomplish these benefits. Neither reference teaches that the semiconductor device has a thickness thinner than that of the inner terminals, and that each inner terminal is so connected that the section of the inner terminal is tapered toward the inside, as claimed. Moreover, neither reference teaches or suggests that its different construction could or should be modified so as to provide these features of the claimed invention.

In the absence of any such teachings, one of ordinary skill in the art would not have been motivated to take the individual teachings of Fee and Chun-Jen, and to combine and further modify those teachings so as to practice the claimed invention. No such motivation is contained anywhere in either reference. Instead, each of Fee and Chun-Jen teach semiconductor devices that have thicknesses that are thicker than that of the inner terminals, and the thicknesses of the inner terminals are the same toward the inside.

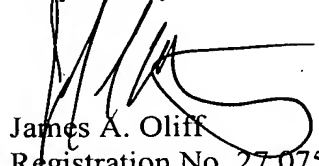
As Fee and Chun-Jen fail to teach or suggest at least these features of the claimed invention, the references alone or in combination would not have rendered obvious the claimed invention. Claim 1, and its dependent claims, would thus not have been rendered obvious by Fee and Chun-Jen. Accordingly, reconsideration and withdrawal of the rejection are respectfully requested.

IV. Conclusion

In view of the foregoing, it is respectfully submitted that this application is in condition for allowance. Favorable reconsideration and prompt allowance of the application are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact the undersigned at the telephone number set forth below.

Respectfully submitted,



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